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AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the

application:

LISTING OF CLAIMS:

1. (currently amended): A bone-marrow extraction and/or injection device comprising:

a grip zone; and

a needle presenting at least one side orifice;

wherein said needle is fastened onto a needle holder, and a protective sleeve surrounds at

least part of said needle, said protective sleeve being mounted to move relative to said needle

between a closed position of said at least one side orifice and an open position of said at least one

side orifice, and said needle holder including reception means that are suitable for co-operating

with fastener means of said protective sleeve so as to hold said protective sleeve in the closed

position or in the open position; and

said fastener means include a pair of claws disposed diametrically opposite to one

another, each claw being pivotally mounted, and presenting a manual actuation surface and a

projection.

2. (previously presented): A device according to claim 1, in which said protective sleeve is

mounted to turn about the needle.

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3. (previously presented): A device according to claim 1, in which said protective sleeve includes

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at least one side opening that is positioned substantially facing said at least one side orifice of the

needle in the open position.

4. (previously presented): A device according to claim 4, in which said protective sleeve

comprises a first portion constituting a sheath surrounding said needle, and a second portion

comprising said fastener means.

5. (canceled).

6. (previously presented): A device according to claim 4, in which said reception means of said

needle holder comprise at least one groove that is suitable for receiving at least one projection of

said fastener means of said protective sleeve.

7. (previously presented): A device according to claim 1, in which said device includes a mixing

chamber that is connected to said needle, and to at least one inlet channel and at least one outlet

channel.

8. (previously presented): A device according to claim 7, in which said mixing chamber is

provided in the needle holder.

9. (previously presented): A device according to claim 7, in which said grip zone comprises a

handle, said mixing chamber being provided in said handle.

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10. (previously presented): A device according to claim 7, including an add-on element between

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said grip zone and said needle holder, said mixing chamber being provided in said add-on

element.

11. (previously presented): A bone-marrow extraction system, characterized in that it includes a

device according to claim 1.

12. (previously presented): An extraction system according to claim 11, in which said system

includes a mixing chamber that is connected to said needle of the device, and to at least one inlet

channel and at least one outlet channel.

13. (previously presented): An extraction system according to claim 12, in which an inlet channel

is connected to a source of anticoagulant.

14. (previously presented): An extraction system according to claim 12, in which an outlet

channel is connected to a bone-marrow collection vessel.

15. (previously presented): An extraction system according to claim 11, in which said system

includes suction means connected at least to said needle.

16. (previously presented): An extraction system according to claim 15, in which said suction

means comprise a vacuum pump.

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17. (previously presented): An extraction system according to claim 15, in which said suction

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means are controlled by a control means comprising a pedal that is actuated by the user.

18. (previously presented): An extraction system according to claim 12, in which said at least

one inlet channel projects into the mixing chamber and towards said at least one outlet channel,

so as to create a Venturi effect.

19. (previously presented): An extraction system according to claim 11, in which said system

includes a timer device for setting the duration of the bone-marrow suction stages.

20. (previously presented): A bone-marrow injection system, characterized in that it includes a

device according to claim 1.

21. (previously presented): An injection system according to claim 20, in which said device is

connected to a bone-marrow reservoir, said reservoir being connected to dispenser means.

22. (previously presented): An injection system according to claim 20, in which said dispenser

means comprise a pump comprising a syringe with an electrically-driven plunger, or a CO₂

pump.

23. (previously presented): An extraction and/or injection system according to claim 11, in which

said system is packaged in sterile manner.

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24. (canceled).

25. (currently amended): A bone marrow extraction and/or injection device according to claim

241, wherein the fastener means prevents a radial force from being applied to the protective

sheath.

26. (currently amended): A bone-marrow extraction and/or injection device comprising:

a grip zone; and

a needle presenting at least one side orifice;

wherein said needle is fastened onto a needle holder, and a protective sleeve

surrounds at least part of said needle, said protective sleeve being mounted to move relative to

said needle between a closed position of said at least one side orifice and an open position of said

at least one side orifice, and said needle holder including grooves which co-operate with a

fastener of said protective sleeve so as to hold said protective sleeve in the closed position or in

the open position; and

said fastener includes a pair of claws disposed diametrically opposite to one another, each

claw being pivotally mounted, and presenting a manual actuation surface and a projection.